

Application No. 09/846,065
Amendment dated December 17, 2003
Reply to Office Action of November 26, 2003

CLAIM AMENDMENTS

Sub C1

1. (Currently Amended) A method comprising:
biasing a first plate of a spatial light modulator with alternating signals of a first polarity during a positive cycle of liquid crystal modulation and a second polarity during a negative cycle of liquid crystal modulation; and
biasing a second plate of said [[a]] spatial light modulator with only the first polarity during both the positive and negative cycles of liquid crystal modulation.
2. (Original) The method of claim 1 including biasing a top plate and a pixel electrode.
3. (Original) The method of claim 2 including biasing said top plate to a negative voltage.
4. (Original) The method of claim 3 including maintaining said pixel electrode at a positive voltage.
5. (Original) The method of claim 4 including biasing said pixel electrode across its full dynamic range.
6. (Original) The method of claim 1 including alternately biasing the top plate negatively and positively.
7. (Currently Amended) A spatial light modulator comprising:
a top plate;
a liquid crystal layer;
a pixel electrode, said top plate and said pixel electrode sandwiching said liquid crystal layer; and

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~~a drive circuit to apply positive potential during a negative cycle of liquid crystal modulation and apply negative potential during a positive cycle of liquid crystal modulation bias potentials to one of said electrodes and said top plate and to bias the pixel electrode with only a positive potential during both the positive and negative cycles of liquid crystal modulation.~~

8. (Original) The spatial light modulator of claim 7 including a drive circuit to apply a negative bias potential to said top plate.

9. (Original) The spatial modulator of claim 7 wherein said spatial light modulator is a liquid crystal over silicon spatial light modulator.

10. (Original) The spatial light modulator of claim 7 wherein said drive circuit applies positive and negative bias potentials in alternating frames.

11. (Original) The spatial light modulator of claim 8 wherein said top plate is formed of indium tin oxide.

12-15 (Canceled)